



PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

SAVERIO CARL FALCO ET AL.

CASE NO.: BB-1179

APPLN. NO.: 09/720,451

GROUP ART UNIT: 1652

FILED: DECEMBER 21, 2000

EXAMINER: DELIA M RAMIREZ

FOR: TETRAHYDROFOLATE METABOLISM  
ENZYMEs

AMENDMENT AND  
RESPONSE TO RESTRICTION REQUIREMENT

RECEIVED

JAN 08 2003

Assistant Commissioner for Patents  
Washington, DC 20231

TECH CENTER 1600/2900

Sir:

This is an Amendment and Response to the Restriction Requirement set forth in the Office Action mailed July 26, 2002. A Petition for Extension of Time for five (5) months up to and including January 26, 2002 is filed simultaneously herewith.

Please enter the following:

IN THE CLAIMS

**Please cancel claims 1-12 without prejudice to or disclaimer of the subject matter recited therein.**

**Please add the following claims 13-25:**

13. (new) An isolated polynucleotide comprising:

- (a) a nucleotide sequence encoding a polypeptide having 5,10-methylenetetrahydrofolate reductase activity, wherein the polypeptide has an amino acid sequence of at least 85% sequence identity, based on the Clustal method of alignment, when compared to SEQ ID NO:6, or
- (b) an isolated nucleic acid fragment that is complementary to (a).

14. (new) The polynucleotide of Claim 13, wherein the amino acid sequence of the polypeptide has at least 90% sequence identity, based on the Clustal method of alignment, when compared to SEQ ID NO:6.

15. (new) The polynucleotide of Claim 13, wherein the amino acid sequence of the polypeptide has at least 95% sequence identity, based on the Clustal method of alignment, when compared to SEQ ID NO:6.

16. (new) The polynucleotide of Claim 13, wherein the amino acid sequence of the polypeptide comprises SEQ ID NO:6.